

magruder fertilizer

check sample program



STRIVING FOR EXCELLENCE IN ANALYSIS

Analyte Proficiency From All Labs

Sample # 180811

32-0-0 UAN Liquid

Statistical Summary

Analytes: 20

Labs Reporting: 80

Issue Date : 09/30/2018

Analyte Code	Analyte Sample # 180811	# Tests Submitted	# Tests in Robust Calculations	Raw Mean	Raw SD	Assigned Value Robust Mean	IA at Analyte Value	Robust sd	Robust Uncertainty (U)	Robust % RSD	Analyte IA Ratio	Average Range (R-bar)	Hornitz %RSD
001	Ammoniacal Nitrogen (%)	22	21	8.485	1.844	8.014		0.4971	0.1356	6.20%		0.0767	2.92%
002	Nitrate Nitrogen (%)	15	15	7.812	0.8852	7.629		0.4357	0.1406	5.71%		0.1124	2.95%
005	Urea Nitrogen (%)	12	12	16.23	1.355	16.51		0.5633	0.2033	3.41%		0.1416	2.62%
006	Biuret Nitrogen (%)	4	4	0.4689	0.3322	0.4689		0.3322	0.2076	70.84%		0.0338	4.48%
007	Urea (%)	4	4	20.79	10.18	20.79		10.18	6.362	48.95%		0.1178	2.53%
008	Biuret (%)	5	5	0.7201	0.4815	0.7201		0.4815	0.2692	66.87%		0.0581	4.20%
009	Ammoniacal Plus Nitrate Nitrogen (%)	4	4	19.56	7.635	19.56		7.635	4.772	39.04%		0.4225	2.56%
010	Total Nitrogen (32%)	78	75	32.04	0.5029	32.03	0.8800	0.3755	0.0542	1.17%	0.99	0.2002	2.37%
020	Total Phosphorus as P2O5 (%)	1		0.0000									
041	Direct Available Phosphorus as P2O5 (%)	2	2	0.0665	0.0474								
050	Soluble Potassium as K2O (%)	3	3	0.0538	0.0425	0.0538	0.4100	0.0424	0.0306	78.85%	0.24	0.0203	6.21%
101	Acid Soluble Calcium (%)	1		0.0450									
121	Acid Soluble Magnesium (%)	1		0.0100									
148	Total Sulfur (%)	1		0.1000									
165	Acid Soluble Boron (%)	1		0.0100									
221	Acid Soluble Copper (%)	1		0.0100									
241	Acid Soluble Iron (%)	1		0.0100									
261	Acid Soluble Manganese (%)	1		0.0100									
311	Sodium (%)	1		0.0500									
321	Acid Soluble Zinc (%)	1		0.0250									

The Analyte IA Ratio = 2.33 * Robust SD / IA at the Analyte Assigned Value. IA ratios of 1 and less indicate participant data dispersion is as good or less than the IA. Red indicates the IA ratio is significantly greater than 1, Orange indicates marginally greater than 1, Green indicates IA ratio is not significantly greater than 1 and Grey indicates < 6 labs reporting.

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Analytes: 20

Sample # 180811

Lab Values

Labs Reporting: 80

32-0-0 UAN Liquid

Issue Date : 09/30/2018

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
001	Ammoniacal Nitrogen (%)	0231	6.680	0.0200	8.014	0.4971	0.0767	21	-2.68	001.99	0
001	Ammoniacal Nitrogen (%)	0546	7.465	0.4300	8.014	0.4971	0.0767	21	-1.10	001.99	0
001	Ammoniacal Nitrogen (%)	0309	7.515	0.2100	8.014	0.4971	0.0767	21	-1.00	001.10	0
001	Ammoniacal Nitrogen (%)	0498	7.650	0.1000	8.014	0.4971	0.0767	21	-0.73	001.10	0
001	Ammoniacal Nitrogen (%)	0220	7.660	0.0200	8.014	0.4971	0.0767	21	-0.71	001.99	0
001	Ammoniacal Nitrogen (%)	0371	7.750	0.1000	8.014	0.4971	0.0767	21	-0.53	001.99	0
001	Ammoniacal Nitrogen (%)	0513	7.773	0.0150	8.014	0.4971	0.0767	21	-0.49	001.99	0
001	Ammoniacal Nitrogen (%)	0169	7.840	0.0200	8.014	0.4971	0.0767	21	-0.35	001.99	0
001	Ammoniacal Nitrogen (%)	0096	7.900	0.0400	8.014	0.4971	0.0767	21	-0.23	001.99	0
001	Ammoniacal Nitrogen (%)	0482	7.900	0.0000	8.014	0.4971	0.0767	21	-0.23	001.99	0
001	Ammoniacal Nitrogen (%)	0476	7.913	0.0174	8.014	0.4971	0.0767	21	-0.20	001.99	0
001	Ammoniacal Nitrogen (%)	0481	7.915	0.0500	8.014	0.4971	0.0767	21	-0.20	001.99	0
001	Ammoniacal Nitrogen (%)	0027	7.960	0.2400	8.014	0.4971	0.0767	21	-0.11	001.99	0
001	Ammoniacal Nitrogen (%)	0510	8.030	0.0080	8.014	0.4971	0.0767	21	0.03	001.99	0
001	Ammoniacal Nitrogen (%)	0444	8.225	0.0700	8.014	0.4971	0.0767	21	0.43	001.10	0
001	Ammoniacal Nitrogen (%)	0522	8.275	0.0300	8.014	0.4971	0.0767	21	0.53	001.99	0
001	Ammoniacal Nitrogen (%)	0550	8.330	0.0200	8.014	0.4971	0.0767	21	0.64	001.99	0
001	Ammoniacal Nitrogen (%)	0255	8.640	0.0400	8.014	0.4971	0.0767	21	1.26	001.99	0
001	Ammoniacal Nitrogen (%)	0527	9.890	0.0400	8.014	0.4971	0.0767	21	3.77	001.99	0
001	Ammoniacal Nitrogen (%)	0540	11.57	0.1200	8.014	0.4971	0.0767	21	7.15	001.99	0
001	Ammoniacal Nitrogen (%)	0405	15.30	0.0200	8.014	0.4971	0.0767	21	14.66	001.10	0
001	Ammoniacal Nitrogen (%)	0368	7.596	0.5300	8.014	0.4971	0.0767	21	-0.84	001.99	1
002	Nitrate Nitrogen (%)	0368	6.657	0.2410	7.629	0.4357	0.1124	15	-2.23	002.99	0
002	Nitrate Nitrogen (%)	0482	7.160	0.0200	7.629	0.4357	0.1124	15	-1.08	002.99	0
002	Nitrate Nitrogen (%)	0029	7.210	0.0000	7.629	0.4357	0.1124	15	-0.96	002.99	0
002	Nitrate Nitrogen (%)	0220	7.330	0.1200	7.629	0.4357	0.1124	15	-0.69	002.99	0
002	Nitrate Nitrogen (%)	0550	7.355	0.0100	7.629	0.4357	0.1124	15	-0.63	002.99	0
002	Nitrate Nitrogen (%)	0540	7.505	0.0900	7.629	0.4357	0.1124	15	-0.29	002.99	0
002	Nitrate Nitrogen (%)	0476	7.627	0.2197	7.629	0.4357	0.1124	15	-0.01	002.99	0
002	Nitrate Nitrogen (%)	0481	7.670	0.1000	7.629	0.4357	0.1124	15	0.09	002.99	0
002	Nitrate Nitrogen (%)	0027	7.725	0.0100	7.629	0.4357	0.1124	15	0.22	002.99	0
002	Nitrate Nitrogen (%)	0371	7.750	0.1000	7.629	0.4357	0.1124	15	0.28	002.99	0
002	Nitrate Nitrogen (%)	0513	7.773	0.0150	7.629	0.4357	0.1124	15	0.33	002.99	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
002	Nitrate Nitrogen (%)	0498	7.800	0.2000	7.629	0.4357	0.1124	15	0.39	002.10	0
002	Nitrate Nitrogen (%)	0231	7.995	0.1300	7.629	0.4357	0.1124	15	0.84	002.99	0
002	Nitrate Nitrogen (%)	0527	9.490	0.0000	7.629	0.4357	0.1124	15	4.27	002.99	0
002	Nitrate Nitrogen (%)	0518	10.14	0.4300	7.629	0.4357	0.1124	15	5.75	002.99	0
005	Urea Nitrogen (%)	0476	12.17	0.1503	16.51	0.5633	0.1416	12	-7.71	005.99	0
005	Urea Nitrogen (%)	0444	15.69	0.0400	16.51	0.5633	0.1416	12	-1.46	005.00	0
005	Urea Nitrogen (%)	0371	16.20	0.2000	16.51	0.5633	0.1416	12	-0.55	005.99	0
005	Urea Nitrogen (%)	0550	16.31	0.0200	16.51	0.5633	0.1416	12	-0.36	005.99	0
005	Urea Nitrogen (%)	0546	16.38	0.3600	16.51	0.5633	0.1416	12	-0.23	005.99	0
005	Urea Nitrogen (%)	0368	16.53	0.3790	16.51	0.5633	0.1416	12	0.03	005.00	0
005	Urea Nitrogen (%)	0027	16.71	0.0900	16.51	0.5633	0.1416	12	0.34	005.99	0
005	Urea Nitrogen (%)	0513	16.77	0.0900	16.51	0.5633	0.1416	12	0.45	005.99	0
005	Urea Nitrogen (%)	0405	16.78	0.0600	16.51	0.5633	0.1416	12	0.48	005.99	0
005	Urea Nitrogen (%)	0029	16.79	0.0800	16.51	0.5633	0.1416	12	0.49	005.99	0
005	Urea Nitrogen (%)	0482	16.97	0.0700	16.51	0.5633	0.1416	12	0.81	005.99	0
005	Urea Nitrogen (%)	0309	17.51	0.1600	16.51	0.5633	0.1416	12	1.77	005.99	0
006	Biuret Nitrogen (%)	0476	0.2707	0.0851	0.4689	0.3322	0.0338	4	-0.60	006.10	0
006	Biuret Nitrogen (%)	0220	0.2950	0.0100	0.4689	0.3322	0.0338	4	-0.52	006.00	0
006	Biuret Nitrogen (%)	0220	0.3450	0.0300	0.4689	0.3322	0.0338	4	-0.37	006.99	0
006	Biuret Nitrogen (%)	0481	0.9650	0.0100	0.4689	0.3322	0.0338	4	1.49	006.99	0
007	Urea (%)	0527	13.93	0.1810	20.79	10.18	0.1178	4	-0.67	007.99	0
007	Urea (%)	0220	16.32	0.0400	20.79	10.18	0.1178	4	-0.44	007.99	0
007	Urea (%)	0231	16.99	0.1400	20.79	10.18	0.1178	4	-0.37	007.00	0
007	Urea (%)	0513	35.94	0.1100	20.79	10.18	0.1178	4	1.49	007.99	0
008	Biuret (%)	0498	0.0850	0.0100	0.7201	0.4815	0.0581	5	-1.32	008.00	0
008	Biuret (%)	0527	0.3600	0.0000	0.7201	0.4815	0.0581	5	-0.75	008.99	0
008	Biuret (%)	0510	0.8905	0.0507	0.7201	0.4815	0.0581	5	0.35	008.10	0
008	Biuret (%)	0405	1.020	0.0400	0.7201	0.4815	0.0581	5	0.62	008.10	0
008	Biuret (%)	0444	1.245	0.1900	0.7201	0.4815	0.0581	5	1.09	008.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0309	15.51	0.9300	19.56	7.635	0.4225	4	-0.53	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0513	15.56	0.0300	19.56	7.635	0.4225	4	-0.52	009.99	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0444	16.17	0.3300	19.56	7.635	0.4225	4	-0.44	009.10	0
009	Ammoniacal Plus Nitrate Nitrogen (%)	0518	31.00	0.4000	19.56	7.635	0.4225	4	1.50	009.99	0
010	Total Nitrogen (32%)	0522	30.38†	0.2700	32.03	0.3755	0.2002	75	-4.41	010.11	0
010	Total Nitrogen (32%)	0483	30.90†	0.1500	32.03	0.3755	0.2002	75	-3.03	010.60	0
010	Total Nitrogen (32%)	0421	30.92†	0.3900	32.03	0.3755	0.2002	75	-2.98	010.60	0
010	Total Nitrogen (32%)	0309	31.18	0.1200	32.03	0.3755	0.2002	75	-2.27	010.11	0
010	Total Nitrogen (32%)	0481	31.35	0.1000	32.03	0.3755	0.2002	75	-1.82	010.99	0
010	Total Nitrogen (32%)	0102	31.35	0.0290	32.03	0.3755	0.2002	75	-1.80	010.60	0
010	Total Nitrogen (32%)	0532	31.49	0.0700	32.03	0.3755	0.2002	75	-1.46	010.99	0
010	Total Nitrogen (32%)	0472	31.52	0.0250	32.03	0.3755	0.2002	75	-1.37	010.60	0
010	Total Nitrogen (32%)	0493	31.60	0.1000	32.03	0.3755	0.2002	75	-1.15	010.12	0
010	Total Nitrogen (32%)	0095	31.65	0.0800	32.03	0.3755	0.2002	75	-1.02	010.60	0

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			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (32%)	0234	31.65	0.3000	32.03	0.3755	0.2002	75	-1.02	010.60	0
010	Total Nitrogen (32%)	0544	31.68	0.0100	32.03	0.3755	0.2002	75	-0.95	010.99	0
010	Total Nitrogen (32%)	0510	31.69	0.0446	32.03	0.3755	0.2002	75	-0.90	010.11	0
010	Total Nitrogen (32%)	0371	31.70	0.0000	32.03	0.3755	0.2002	75	-0.88	010.99	0
010	Total Nitrogen (32%)	0549	31.71	0.1400	32.03	0.3755	0.2002	75	-0.86	010.11	0
010	Total Nitrogen (32%)	0482	31.75	0.7000	32.03	0.3755	0.2002	75	-0.75	010.60	0
010	Total Nitrogen (32%)	0523	31.75	0.1000	32.03	0.3755	0.2002	75	-0.75	010.60	0
010	Total Nitrogen (32%)	0042	31.76	0.2100	32.03	0.3755	0.2002	75	-0.74	010.60	0
010	Total Nitrogen (32%)	0356	31.80	0.0600	32.03	0.3755	0.2002	75	-0.62	010.60	0
010	Total Nitrogen (32%)	0451	31.80	0.0000	32.03	0.3755	0.2002	75	-0.62	010.60	0
010	Total Nitrogen (32%)	0494	31.81	0.2300	32.03	0.3755	0.2002	75	-0.61	010.60	0
010	Total Nitrogen (32%)	0542	31.85	0.4020	32.03	0.3755	0.2002	75	-0.49	010.60	0
010	Total Nitrogen (32%)	0444	31.86	0.2900	32.03	0.3755	0.2002	75	-0.47	010.60	0
010	Total Nitrogen (32%)	0545	31.88	0.0400	32.03	0.3755	0.2002	75	-0.41	010.99	0
010	Total Nitrogen (32%)	0416	31.90	0.1300	32.03	0.3755	0.2002	75	-0.37	010.12	0
010	Total Nitrogen (32%)	0498	31.90	0.0000	32.03	0.3755	0.2002	75	-0.35	010.12	0
010	Total Nitrogen (32%)	0105	31.92	0.2400	32.03	0.3755	0.2002	75	-0.30	010.60	0
010	Total Nitrogen (32%)	0389	31.93	0.2500	32.03	0.3755	0.2002	75	-0.29	010.60	0
010	Total Nitrogen (32%)	0114	31.94	0.3400	32.03	0.3755	0.2002	75	-0.25	010.60	0
010	Total Nitrogen (32%)	0422	31.95	0.4400	32.03	0.3755	0.2002	75	-0.22	010.60	0
010	Total Nitrogen (32%)	0027	31.96	0.5700	32.03	0.3755	0.2002	75	-0.21	010.60	0
010	Total Nitrogen (32%)	0486	31.99	0.0500	32.03	0.3755	0.2002	75	-0.13	010.60	0
010	Total Nitrogen (32%)	0029	32.00	0.1500	32.03	0.3755	0.2002	75	-0.10	010.60	0
010	Total Nitrogen (32%)	0157	32.00	0.2000	32.03	0.3755	0.2002	75	-0.09	010.60	0
010	Total Nitrogen (32%)	0324	32.00	0.2000	32.03	0.3755	0.2002	75	-0.09	010.60	0
010	Total Nitrogen (32%)	0041	32.01	0.2100	32.03	0.3755	0.2002	75	-0.07	010.60	0
010	Total Nitrogen (32%)	0550	32.01	0.0200	32.03	0.3755	0.2002	75	-0.06	010.60	0
010	Total Nitrogen (32%)	0307	32.04	0.8100	32.03	0.3755	0.2002	75	0.01	010.60	0
010	Total Nitrogen (32%)	0037	32.06	0.0100	32.03	0.3755	0.2002	75	0.06	010.60	0
010	Total Nitrogen (32%)	0055	32.06	0.0700	32.03	0.3755	0.2002	75	0.06	010.60	0
010	Total Nitrogen (32%)	0452	32.07	0.0100	32.03	0.3755	0.2002	75	0.09	010.60	0
010	Total Nitrogen (32%)	0531	32.08	0.0500	32.03	0.3755	0.2002	75	0.11	010.11	0
010	Total Nitrogen (32%)	0292	32.08	0.0800	32.03	0.3755	0.2002	75	0.13	010.60	0
010	Total Nitrogen (32%)	0405	32.08	0.0800	32.03	0.3755	0.2002	75	0.13	010.60	0
010	Total Nitrogen (32%)	0531	32.10	0.1000	32.03	0.3755	0.2002	75	0.18	010.99	0
010	Total Nitrogen (32%)	0230	32.10	0.2000	32.03	0.3755	0.2002	75	0.18	010.60	0
010	Total Nitrogen (32%)	0377	32.15	0.0300	32.03	0.3755	0.2002	75	0.30	010.60	0
010	Total Nitrogen (32%)	0231	32.15	0.0400	32.03	0.3755	0.2002	75	0.31	010.60	0
010	Total Nitrogen (32%)	0521	32.16	0.0000	32.03	0.3755	0.2002	75	0.33	010.60	0
010	Total Nitrogen (32%)	0220	32.16	0.0400	32.03	0.3755	0.2002	75	0.34	010.99	0
010	Total Nitrogen (32%)	0537	32.17	0.5500	32.03	0.3755	0.2002	75	0.35	010.99	0
010	Total Nitrogen (32%)	0546	32.20	0.0100	32.03	0.3755	0.2002	75	0.43	010.11	0
010	Total Nitrogen (32%)	0390	32.20	0.0000	32.03	0.3755	0.2002	75	0.45	010.60	0

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				
010	Total Nitrogen (32%)	0073	32.21	0.0500	32.03	0.3755	0.2002	75	0.46	010.60	0
010	Total Nitrogen (32%)	0136	32.21	0.0400	32.03	0.3755	0.2002	75	0.47	010.60	0
010	Total Nitrogen (32%)	0177	32.21	0.3800	32.03	0.3755	0.2002	75	0.47	010.60	0
010	Total Nitrogen (32%)	0035	32.22	0.3300	32.03	0.3755	0.2002	75	0.49	010.60	0
010	Total Nitrogen (32%)	0501	32.24	0.2200	32.03	0.3755	0.2002	75	0.55	010.60	0
010	Total Nitrogen (32%)	0105	32.27	0.3100	32.03	0.3755	0.2002	75	0.62	010.11	0
010	Total Nitrogen (32%)	0547	32.28	0.1700	32.03	0.3755	0.2002	75	0.65	010.60	0
010	Total Nitrogen (32%)	0513	32.31	0.1200	32.03	0.3755	0.2002	75	0.74	010.99	0
010	Total Nitrogen (32%)	0049	32.33	0.0900	32.03	0.3755	0.2002	75	0.78	010.60	0
010	Total Nitrogen (32%)	0043	32.36	0.0900	32.03	0.3755	0.2002	75	0.86	010.60	0
010	Total Nitrogen (32%)	0423	32.44	0.0870	32.03	0.3755	0.2002	75	1.08	010.60	0
010	Total Nitrogen (32%)	0040	32.45	0.1000	32.03	0.3755	0.2002	75	1.11	010.60	0
010	Total Nitrogen (32%)	0025	32.53	0.6800	32.03	0.3755	0.2002	75	1.33	010.60	0
010	Total Nitrogen (32%)	0354	32.65	0.1000	32.03	0.3755	0.2002	75	1.64	010.60	0
010	Total Nitrogen (32%)	0538	32.70	0.0400	32.03	0.3755	0.2002	75	1.78	010.11	0
010	Total Nitrogen (32%)	0534	32.70	0.0000	32.03	0.3755	0.2002	75	1.78	010.60	0
010	Total Nitrogen (32%)	0007	32.80	0.4000	32.03	0.3755	0.2002	75	2.04	010.60	0
010	Total Nitrogen (32%)	0360	32.92‡	0.0700	32.03	0.3755	0.2002	75	2.35	010.60	0
010	Total Nitrogen (32%)	0368	32.99‡	0.2220	32.03	0.3755	0.2002	75	2.56	010.60	0
010	Total Nitrogen (32%)	0255	33.12‡	1.276	32.03	0.3755	0.2002	75	2.91	010.60	0
010	Total Nitrogen (32%)	0527	33.31‡	0.1410	32.03	0.3755	0.2002	75	3.40	010.60	0
010	Total Nitrogen (32%)	0485	33.46‡	1.360	32.03	0.3755	0.2002	75	3.80	010.60	0
010	Total Nitrogen (32%)	0325	31.65	2.500	32.03	0.3755	0.2002	75	-1.02	010.60	1
010	Total Nitrogen (32%)	0023	33.16‡	2.867	32.03	0.3755	0.2002	75	3.01	010.60	1
010	Total Nitrogen (32%)	0476	27.98†	0.0331	32.03	0.3755	0.2002	75	-10.79	010.99	2
020	Total Phosphorus as P2O5 (%)	0547	0.0000	0.0000				0		020.50	4
041	Direct Available Phosphorus as P2O5 (%)	0354	0.0330	0.0020				2		041.60	0
041	Direct Available Phosphorus as P2O5 (%)	0325	0.1000	0.0000				2		041.50	0
050	Soluble Potassium as K2O (%)	0354	0.0165	0.0110	0.0538	0.0424	0.0203	3	-0.88	050.52	0
050	Soluble Potassium as K2O (%)	0547	0.0450	0.0500	0.0538	0.0424	0.0203	3	-0.21	050.51	0
050	Soluble Potassium as K2O (%)	0325	0.1000	0.0000	0.0538	0.0424	0.0203	3	1.09	050.99	0
101	Acid Soluble Calcium (%)	0354	0.0450	0.0100				1		101.30	0
121	Acid Soluble Magnesium (%)	0354	0.0100	0.0000				1		121.30	0
148	Total Sulfur (%)	0354	0.1000	0.0000				1		148.99	0
165	Acid Soluble Boron (%)	0354	0.0100	0.0000				1		165.30	0
221	Acid Soluble Copper (%)	0354	0.0100	0.0000				1		221.30	0
241	Acid Soluble Iron (%)	0354	0.0100	0.0000				1		241.30	0
261	Acid Soluble Manganese (%)	0354	0.0100	0.0000				1		261.30	0
311	Sodium (%)	0354	0.0500	0.0200				1		311.99	0
321	Acid Soluble Zinc (%)	0354	0.0250	0.0300				1		321.30	0

Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = rejected for duplicates too far apart, 2 = rejected as extreme outlier, 3 = removed from stats, 4 = rejected due to 0s submitted and 5 = LOD. A 9 flag indicates a data problem - scores not calculated. Robust statistics not used if < 6 labs used in calculations, in this case the Z Scores are grey and included for

Analyte Group	Analyte (Units)	Lab Code	Lab Data		Method Values			# Tests	Magruder CS Z Score	Your Method	Flag
			Value	Range	Rob Mean	Rob SD	R-bar				

information only. Your offset values are higher (‡) or lower (†) than the Robust Analyte value \pm Investigational Allowance. Analyte codes in light green indicate a guaranteed analyte. Individual lab values may be below detection limits but are reported solely for the purpose of this Proficiency Testing program.